

## ATTACHMENT A

Claims 1 - 11: (Cancelled)

12. (Previously Presented) A process for preparing cyclopentadienyl system anions of the formula (VII),

$$A \xrightarrow{R^{4B}} R^{1A}$$

$$R^{4B}$$

$$R^{4B}$$

$$R^{3A}$$

$$R^{3A}$$

where the variables have the following meanings:  $R^{1A}-R^{4A}$  are each, independently of one another,

hydrogen,  $C_1$ - $C_{20}$ -alkyl,  $C_2$ - $C_{20}$ -alkenyl,  $C_6$ - $C_{20}$ -aryl, alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part,  $NR^{6A}_2$ ,  $N(SiR^{6A}_3)_2$ ,  $OR^{6A}$ ,  $OSiR^{6A}_3$ , or  $SiR^{6A}_3$  where the organic radicals  $R^{1A}$ - $R^{4A}$  may also be substituted by halogens and two vicinal radicals  $R^{1A}$ - $R^{4A}$  may also be joined to form a five- or sixmembered ring, and/or two vicinal radicals  $R^{1A}$ - $R^{4A}$  are joined to form a heterocycle which contains at least one atom selected from the group consisting of N, P, O and S,

 $R^{6A}$  are each, independently of one another, hydrogen,  $C_1\text{-}C_{20}\text{-}alkyl,\ C_2\text{-}C_{20}\text{-}alkenyl,\ C_6\text{-}C_{20}\text{-}aryl,\ or}$  alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part and two geminal radicals  $R^{6A}$  may also be joined to form a five- or six-membered ring,

A is an unsubstituted, substituted or fused, heteroaromatic ring system,

 $R^{4B}$  are each, independently of one another, hydrogen,  $C_1\text{-}C_{20}\text{-}alkyl$ ,  $C_2\text{-}C_{20}\text{-}alkenyl$ ,  $C_6\text{-}C_{20}\text{-}aryl$ , alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part or  $SiR^{3B}_{3}$ , where the organic radicals  $R^{4B}$  may also be substituted by halogens and two geminal or vicinal radicals  $R^{4B}$  may also be joined to form a five- or six-membered ring and

 $R^{3B}$  are each, independently of one another, hydrogen,  $C_1$ - $C_{20}$ -alkyl,  $C_2$ - $C_{20}$ -alkenyl,  $C_6$ - $C_{20}$ -aryl or alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part and two radicals  $R^{3B}$  may also be joined to form a five- or six-membered ring,

which comprises the step a) or a'), where, in step a), an A<sup>-</sup> anion is reacted with a fulvene of the formula (VIIIa)

$$R^{4B}$$
 $R^{4B}$ 
 $R^{4A}$ 
 $R^{3A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4B}$ 
 $R^{4A}$ 

or,

in step a'), an organometallic compound  $R^{4B}M^BX^B_b$  where  $M^B$  is a metal of group 1 or 2 of the Periodic Table of the Elements,

 $X^B$  is halogen,  $C_1\text{-}C_{10}\text{-}alkyl$ , alkoxy having from 1 to 20 carbon atoms in the alkyl radical and/or from

6 to 20 carbon atoms in the aryl radical, or  $\ensuremath{\text{R}}^{4B}$  and

b is 0 when  $\mathbf{M}^{\mathbf{B}}$  is a metal of group 1 of the Periodic Table of the Elements and is 1

when  $\boldsymbol{M}^{B}$  is a metal of group 2 of the Periodic Table of the Elements,

is reacted with a fulvene of the formula (VIIIb):

$$R^{4B}$$
 $R^{4A}$ 
 $R^{3A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 

13. (Previously Presented) A process for preparing cyclopentadiene systems of the formula (VIIa)

$$A = C = E^{10A} = E^{10A$$

where the variables have the following meanings:  $E^{6A}-E^{10A} \text{ are each carbon, where in each case four }$  adjacent  $E^{6A}-E^{10A}$  form a conjugated diene system and the remaining  $E^{6A}-E^{10A}$  additionally bears a hydrogen atom,

 $R^{1A}-R^{4A}$  are each, independently of one another, hydrogen,  $C_1-C_{20}-alkyl$ ,  $C_2-C_{20}-alkenyl$ ,  $C_6-C_{20}-aryl$ ,

alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part,  $NR^{6A}_{2}$ ,  $N(SiR^{6A}_{3})_{2}$ ,  $OR^{6A}$ ,  $OSiR^{6A}_{3}$ , or  $SiR^{6A}_{3}$ , where the organic radicals  $R^{1A}-R^{4A}$  may also be substituted by halogens and two vicinal radicals  $R^{1A}-R^{4A}$  may also be joined to form a five- or sixmembered ring, and/or two vicinal radicals  $R^{1A}-R^{4A}$  are joined to form a heterocycle which contains at least one atom selected from the group consisting of N, P, O and S,

- $R^{6A}$  are each, independently of one another, hydrogen,  $C_1$ - $C_{20}$ -alkyl,  $C_2$ - $C_{20}$ -alkenyl,  $C_6$ - $C_{20}$ -aryl, or alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part and two geminal radicals  $R^{6A}$  may also be joined to form a five- or six-membered ring,
- A is an unsubstituted, substituted or fused, heteroaromatic ring system,
- $R^{2B}$  are each, independently of one another, hydrogen,  $C_1$ - $C_{20}$ -alkyl,  $C_2$ - $C_{20}$ -alkenyl,  $C_6$ - $C_{20}$ -aryl, alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part or  $SiR^{3B}_3$ , where the organic radicals  $R^{2B}$  may also be substituted by halogens and  $R^{2B}$  and A may also be joined to form a five- or six-membered ring,
- $R^{3B}$  are each, independently of one another, hydrogen,  $C_1\text{-}C_{20}\text{-}alkyl$ ,  $C_2\text{-}C_{20}\text{-}alkenyl$ ,  $C_6\text{-}C_{20}\text{-}aryl$  or alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part and two radicals  $R^{3B}$  may also be joined to form a five- or six-membered ring,

which comprises the following step:

a'') reaction of an  $A-CR^{2B}R^{2B-}$  anion with a cyclopentenone system of the formula (IX)

- 14. (Cancelled)
- 15. (Cancelled)
- 16. (New) The process as claimed in claim 12, wherein the negative charge of the  $A^-$  anion is on a carbon atom adjacent to a heteroatom.
- 17. (New) The process as claimed in claim 12, wherein A has the formula (III):

$$\begin{array}{c|c}
R_{p}^{2C} \\
R_{p}^{1C} \\
E & E^{2C} \\
E & E^{3C} \\
E & E^{3C} \\
R_{p}^{3C}
\end{array}$$
(III)

wherein

 $E^{1C}-E^{4C}$  are each carbon or nitrogen;

 $R^{1C}-R^{4C}$  are each, independently of one another, hydrogen,  $C_1-C_{20}$ -alkyl,  $C_2-C_{20}$ -alkenyl,  $C_6-C_{20}$ -aryl, alkylaryl comprising from 1 to 10 carbon atoms in the alkyl

part and 6-20 carbon atoms in the aryl part, or  $SiR^{5C}_{3}$ , wherein  $R^{1C}-R^{4C}$  are optionally substituted by at least one halogen, nitrogen,  $C_1-C_{20}$ -alkyl group,  $C_2-C_{20}$ -alkenyl group,  $C_6-C_{20}$ -aryl group, alkylaryl group comprising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part or  $SiR^{5C}_{3}$ , and two vicinal  $R^{1C}-R^{4C}$  or  $R^{1C}$  and Z are optionally joined to form a five- or six-membered ring;

 $R^{5C}$  are each, independently of one another, hydrogen,  $C_1$ - $C_{20}$ -alkyl,  $C_2$ - $C_{20}$ -alkenyl,  $C_6$ - $C_{20}$ -aryl or alkylaryl comrising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part, and two  $R^{5C}$  are optionally joined to form a five- or six-membered ring; and

p is 0 when  $E^{1C}-E^{4C}$  is nitrogen, and is 1 when  $E^{1C}-E^{4C}$  is carbon.